## PRESERVATION OF FARM TIMBER

OF THE SEVERAL METHODS OF PRESERVING POSTS, DIPPING IN CREOSOTE IS CONSIDERED THE BEST.

BY C. P. WILLIS.

The amount of wood used on the The impregnation of fence posts forms of the country and exposed to with crossote is best accomplished by scarce and dear to use. There re-the subsequent cooling progresses, and mains, however, an abundance of in-a partial vacuum is formed, into which from decay, are entirely satisfactory preservative. substitutes.



Heavy fron tank heated by fire

It is possible that bacteria may be as- and short. sociated in some cases, but as yet we have no positive proof of it. It follows that the object of all preservative treatment is to prevent the development of these organisms, and should be permitted to dry for at least that the most effective treatment is three days. the one that accomplishes this for the longest period.

Fungi require for their best development a certain balance between the air and the moisture content of the wood, and a favorable temperature. Thorough seasoning, on the one hand, or thorough saturation with moisture on the other, alters this balance to such an extent that the growth of the organism is either retarted or pro-hibited. Air seasoning only retards the growth,

There are several methods by which timbers may be given more thorough preservative treatment. The surface of the wood may be soaked with paint or some similar substance. Such a Bark retards or prevents the pene-coating keeps the wood dry, and more tration of the preservative into the tard the escape of such moisture as fully removed, may be already within the timber. The tops of posts should better preservatives are the products obliquely to shed rain water. of the distillation of coal tar and made with an ax is preferable to one of the distillation of cost tat made with a saw, because it is possessing the adventages of paint, smoother. Beveling is particularly possessing the advantages of paint, smoother. Beveiling is particularly are antiseptics and poisonous to fundi important if the tops of the posts are The deeper such antiseptics penetrate the wood the more lasting is their

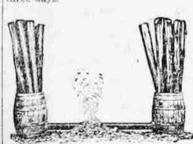
effect. It is well known that wood decays most rapidly when placed in contact with the surface of the ground, because the wood-destroying organisms find there more uniform tions of heat and moisture to encour- lead of others. But every man knows age their development. For this rea- or ought to know what there is in son the ground line of a post must be him and if he feels away down in his thoroughly treated, whereas portlons heart that he can succeed as a farmer of the cart shows and in the can succeed as a farmer

rapid decay is enormous. It is esti- the so-called "open-tank" process. mated that one billion fence posts and This consists of heating the wood for the equivalent of six billion a certain period and then cooling it in board feet, are required each year the preservative. The principle is For this class of material durability simple: During the heating the high is the first requisite. The naturally temperature causes the air and water durable weeds were formerly plentiful over large areas, but in many sec-tions they have now become too is forced out. The rest contracts as The rest contracts as ferior woods which, when preserved atmospheric pressure forces the cool

The open-tank principle may be posts. The best way to heat the posts 1 am putting them 12 feet apart. is to immerse their butts in creesote

The simplest form of treating plant consists of two creosote barrels, placed about seven feet apart and connected by a 2 or 4-inch pipe. The heating is accomplished by building a fire under the pipe. Each barrel should be set in a shallow box or provided with some gutter arrangement to catch the off in case of an unexpected leak. The barrels should be shielded from the and the posts set, direct heat of the fire. In some rewhich is almost sure to occur after a few days' use. Nevertheless, the bar-Decay consists in the destruction of rel outfit will suffice when only a few the wood tissues by low forms of plant posts are to be treated and when, in life. These organisms we term fund, consequence, the treatments are few

Thorough seasoning should always preceds impregnation. Even air-dry wood is unfit for treatment after a



Barrel outfit for dipping in creosote

or less effectually excludes the en- wood. It also usclessly increases the trance of the decay-producing organs- cost of treatment by itself absorbing isms. Such coatings, however, should oil. Peeling the posts before treat be applied only to well-seasoned material, since they will also tend to re- the papery inner bark should be care

The tops of posts should be cut not to be treated.

### GOOD AND BAD FARMERS.

Some men are born to make their

## BUILDING THE FARM FENCE

BY II, F. GRINSTEAD.

more when it is well fenced, and di- end

Woven wire, even of the 26-inch proximately at right and a short soon as the stretcher is removed. A stretcher with two levers, one at the

Posts cut in the winter and allowed to season till the summer before being set, will be more satisfactory, but this plan is not always practicable.

There is yet another way of bracing the surface.

There is yet another way of bracing corner-posts, to be commended for its simplicity and low cost where timber construction

variously applied in the treatment of perience that that is too far and now around the corners.

posts. The test way to heat the posts 1 am putting them 12 feet spart.

This is an anchor placed in line s to immerse their butts in creosote Set the corner or end-posts first, with the fence for an end-post, but maintained at a temperature of then drive the others in line between where there is a corner it is midway

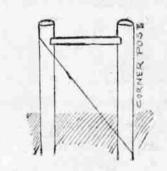
26° F. them by stretching a wire on the between, or at an angle of 35 degrees. The simplest form of treating plant ground. This wire must be stretched with either line.

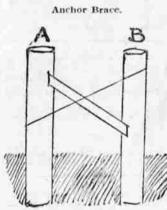
barrels should be shielded from the and the posts set.

When this log or "dead man," as it is called, is covered and well tamped, 10 will make the gate without any

as the tendency to pull up.

Eight or ten feet from the corner-





Brace and Wire. a, corner post; b, stray post.

theroughly treated, whereas portions of the post above and below this point require less treatment. The climate of the locality should also be considered. In the warm Gulf States or in a moisture-laden atmosphere posts require more thorough treatment than an others with a cooler northern climate or on the arily plottes.

The mature sow requires only food the paper and spread the feed as find a place large enough to go the can soon of the paper and spread the feed as find a place large enough to go the condition. The mature sow requires only food the paper and spread the feed as dearner of the received in the two points of the paper and spread the feed as find a place large enough to go the can soon. The mature sow requires only food the post above and below this point the consument of the paper and spread the feed as find a place large enough to go the can soon. The mature sow requires only food the post above and spread the feed as form. The mature sow requires only food the paper and spread the feed as dearner. The mature sow requires only food the paper and spread the feed as the condition of the paper and spread the feed as dearner. The mature sow requires only food the paper and spread the feed as dearner. The mature sow requires only food the paper and spread the feed as dearner. The mature sow requires only food the paper and spread the feed as farmer. The mature sow requires only food the paper and spread the feed as farmer. The mature sow requires only food the paper and spread the feed as farmer. The mature sow requires only food the paper and spread the feed as farmer. The mature sow requires only food the paper and spread the feed as farmer. The mature sow requires only food the paper and spread the feed as farmer. The mature sow requires only food the paper and spread the feed as farmer. The mature sow requires only food.

The flat the feed as farmer and spread the feed as farmer. The mature source are food.

The flat the feed as farmer and spread the feed as farmer and spread the feed as farmer. T In place of the upper head stretch or suspicion

Any farm is worth \$10 per acre from the ground to receive the other | There is considerable contraction and expansion due to heat and cold.

vided into convenient fields and lots. This will throw a large part of the so a fence stretched in midsummer by As there is more or less work and ex- strain on the stray post, but in order more likely to remain tight, pense entailed in setting a good hog- to make this more effective, and over-tight fence in place, one should get come the tendency to pull upward on stretcher to the end or corner-post, only the best material, and spend the corner-post, a double strand of and not to some object beyond, just more time in setting and stretching smooth No. 16 whre is put around both because it is more convenient.

We have used posts a rod apart on is scarce. It is best suited for back our farm, but I have learned from ex- fences, where there is no passing

direct heat of the fire. In some respects the barrel tanks are not satisfactory on account of them leaking, which is almost sure to occur after a as the tendency to pull up.

Set corner posts at least three feet the wire from it to the post should be waste. There should also be another twisted till the post leasns slightly, piece a foot wide and 10 feet long, then when the wire is stretched the which may be sawed in two and nailed, post will give sufficiently to put it one piece on either side waste the hinges are bolted on.

back straight. One may think that this anchor The gate may be made 11 feet long

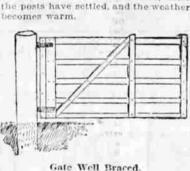
he other braces. For a yard fence where appearances Good hinges should be belted on ong as the distance between the posts, the stay-post being set in one end, and the corner-post in the other.

A brace is fitted in tight between

hem in the bottom of the hole, and the dirt filled in, then another is put n the same way at the surface of the ground. A modification of the anchor-brace

is made by running the wire from the op of the second or stay post to the oftom of the corner-post, then setting horizontal brace between the posts near the top. For a good fence I prefer to have

posts set in the early spring and tretch the wire a month later, after comes warm.



SUCCESSFUL RAT TRAP.

a piece of thick wrapping paper over the top of the barrel and fasten it. This trap has been known to catch.

This trap has been known to catch.

This trap has been known to catch.

The paper and spread the feed as find a place large enough to go years.

The mature row requires only food.

Invisible Braces.

Corner Post Anchored.

the gate straight.

trouble is.

## MORTGAGE RAISERS OF AMERICA

SOME VERY EXCELLENT SUGGESTIONS REGARD-ING THE BREEDING, FEEDING AND MARKETING OF HOGS

BY B. E. LARA,

more time in setting and stretching smooth No. 10 wire is put around both than when the common barbed wire posts from the top of the stray post to the bottom of the corner post, or ap-Woven wire, even of the 26-inch proximately at right angles to the width, exerts several times the strain brace, then twisted tight with a short width, exerts several times the strain brace, then twisted tight with a short stretcher is removed. A system, or lack of system in this countricated to the stray brace at the small packing establishments where whether this quality attributed to the they can haul their hogs and get their scrub hog is true since we have negative as actual worth. How different from the secules as well as the well-bred hog. as that of the three-strand barbed stick.

The brace should not be less than good size, and well braced.

Posts cut in the winter and allowed the ends.

The brace should not be less than stretcher with two levers, one at the top and another at the bottom is the best type, since on uneven ground the wire may be stretched to conform to wire may be stretched to conform to will the time ever come when our A farmer who owns a herd of scrub top and another at the bottom is the best type, since on uneven ground the wire may be stretched to conform to wire may be stretched to conform to will the time ever come when our A farmer who owns a herd of scrub top and another at the bottom is the best type, since on uneven ground the wire may be stretched to conform to will the time ever come when our A farmer who owns a herd of scrub

The most important thing in the be derived from co-operation?

Construction of a fence is having posts

Roughage is one of the most imconstruction of a fence is having posts construction of a fence is having posts
well set, for without this it is imposportant factors in wintering the brood sible to stretch heavy woven wire. Never try to stretch more than 40 coarse food they will not do well rods at once, and if this is four-foot Corn and milk are well balanced as a wire, it will require enormous tension.

A part of the crimp should be added to distend the organs of digestrated by the control of the wires. Nail to every wire. Stands a



A type of hog that is fast disappearing.

rather than up, as is the case with and the extra pair of uprights keep every day.

August or September pigs and gives count for more than in other places, the brace may be hidden. A hole is dug to the desired depth, being as the middle of June will make better money for his feed than he will on There is no die any bunch of pigs that he feeds during the year.

> plenty of range during the winter, ration that is composed of less than providing, of course, that you have two-thirds corn. It is a mistake to good, dry sleeping places and warm think we cannot afford to buy other houses to shelter them during the ex- feeds to mix with the corn tremely cold weather.

should be some provision made for food. dipping hogs. This not only proves

Possibly there is no other farm anifor his existence as the scrub hog. this the is an unprofitable animal any way corn. you take him

As an economical pork producer he is a failure. Even his ability to shift for himself does not recommend him to the people within the limit of his range as he has the reputation of preying upon neighboring corn fields when food is scarce.

His build naturally adapts him to and grain storage rooms, his manner of living since he is longto his manner of living. With the sweet. scrub hog it is "root hog or die,"

and still survive.

The farmers of Denmark secure the | He is regarded as being able to rebest prices for their fancy bacon for sist disease better than the improved the reason that they have established breeds of hogs. We very much doubt small packing establishments where whether this quality attributed to the

farmers can see the great benefits to hogs seldem needs any other corn

crib than his hogs. He never gets rich selling pork and

Poor farming and scrub hogs are sually found associated together.
They are near and dear companions.

Both make a rapid retreat before a progressive spirit and there is not a better evidence of the general pro-gressiveness of a people than the absence of the scrub hog from a com-

Too much stress cannot be laid on selecting breeding swine from sound, healthy parents. Animals that are not strong in constitution cannot withstand disease as well as those which Eight or ten fect from the cornerposts set the stray post, against which
the corner-post is to be braced. Cut a
if it is put in two feet, and the wall
big square notch in this post a foot
from the ground, to receive the end of
the brace, and a similar notch should
be cut in the corner-post three feet
be cut in the corner-post three feet

The gate may be made II feet long
would pull up, but there is no danger
and five feet high by cutting the 16foot lumber this way, the short pieces
being used in pairs for the uprights,
one piece being sawed into two eighttoward the top of the post. This form
of brace tends to pull the post down
of brace tends to pull the post down
of brace tends to pull the post down
of brace tends to pull the case with

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of brace tends to pull the case with
and the extra pair of uprights keep
over and est large quantities of It

When the time again, brood sows will
keep more quiet and contented if they
are given alfalfa, clover or some kind
of roughage to work over during the
day. Good corn stover is better than
of brace tends to pull the post down
when run the full length of the gate,
over and est large quantities of It

tends.

When the time and the corner of the length of the gate,
over and est large quantities of It

the discover.

When the corner of the long to the post of the post feeds

The gate way to the feet long
the corner of the long the post of the long the post of the post are strong in that respect. In case

Whole milk is one of the best feeds The man who has a lot of thrifty for hogs that are suffering with disease of any kind. It is an excellent feed and has often been of great assistance in bringing hogs through

There is no disputing the fact that practical feeder admits that better re-Do not be afraid to give shoats suits can be brought about by feeding a Ordinarily it is a mistake not to feed

On each and every farm there the hogs the liquid before the solid

See that the hogs have comfortable to be an easy and effectual way of quarters—now and the months to disinfecting animals which are come. Failure here will impair the brought onto the farm but it also usefulness of the herd.

Reeps them free from lice. Hogs will make from 10 to 12

Hogs will make from 10 to 12 pounds of meat, live weight, for each mal that can offer as poor an excuse bushel of corn caten, but because of this too many farmers feed too much



A combination hog house, with hay

The cream separator has greatly legged, narrow in the chest, has a reduced scours in pigs because the long narrow snout. This adapts him skim-milk can always be fed while

When the sow of good type has long shout. His narrow proven herself a prolific breeder, an

# PRODUCING MARKET CREAM

BY W. M. KELLY, NEW YORK.

In the production of cream that will cow should have, but I believe it is feeding. A change of feed many times

ness. Many people, when handling milk forget that they are dealing with a food product. If filth is allowed to get into the milk at any point of product into the milk at any point of production, no amount of care afterward can make amends for this difficulty.

The chief processly is into the sweet and clean it is almost of ruining the quality of the production. Roots are excellent. When feeding ensilage, plan to feed it after milking so that the odor will not affect the cream.

It should be well mixed and free from the chief processly in interval and it is easily applied with a spray pump. It should be well mixed and free from the chief processly in interval and it is easily applied with a spray pump.

for sweeping, etc the stove the screen can be made to Gold-plated sin is always much the mixture will not stick, just fit on the outside of it and thus more attractive than the raw material. Leather-covered furniting

WORTH THINKING OVER,

The chief necessity in improving lumps before using to prevent the noz- ming room should have good drains, conditions is to give the pro- zle of the sprayer from getting cement floors and walls that are tight. ducer such knowledge of the right clogged. Cement floors are the best The floor should have enough slope methods of handling and caring for because they are easy to keep clean, to carry off the water to the drains, the milk that he will see the necessity With cement floors and liberal use of Sanitary methods do not mean expenmethods and know how to straw and other absorbents it is not sive methods, but that all of the buildmanage his work to accomplish the difficult to keep stables neat and clean, ings, tools, and men employed must be

Many disagree as to whether the kept neat and clean. In selecting cows for producing milk should be separated fresh from and most sanitary equipments are the cream it is to our best interest to the cows or whether it is best to wait least expensive. select animals from breeds that have until it is cooled and again brought to. The next step is marketing the large amount of butter fat at the lowseparated. On the majority of farms the main point is to put up the right
est cost and for that reason Jerseys where fancy cream is produced, conand Guernseys stand at the head of the
siderable of the supply is brought
ers know is produced under good conlist as economic cream producers.

tuminated with foul air. A number of cows are milked until the cream goes ask a price that will leave you enough authorities have said a great deal onto the table for the consumer.

politics to attend every primary and If the bottom of versels in which

or a lazy man, or both.

meet the demands of a fancy city more important than we provide a deranges the cow's system to such an trade the care of the milk and the san-plan to change the air frequently extent as to give the milk a bad odor. itary methods of handling the cows rather than figure on the basis of so Never feed turnips, cabbage or vegetables because there is always danger

From a commercial standpoint it may be well to remember that a pair of stand for that reason Jerseys where fancy cream is produced, consumption of the supposed to the suppose and sleek, bring from \$50 to \$75 each.
The farmer is now 47 years of age
than horses and when used regularly
last him twenty-five years. By this
time the owner is 72 years and probably through with the daily struggle
ably through with the daily struggle
to restauce, in fact, is in a position
to rest on his oars," as the saying to a servant no doubt the

the produce clean, wholesome cream though all the bait would not be thrown even
To produce clean, wholesome cream though all the bait would not be thrown even
To produce clean, wholesome cream though all the bait would be taken off,
the man much less liable to lameness
we must have clean stables, clean
The triggers in this improved trap,
are very sensitive to the touch I have
caught as many as three skinics with
the trap would not be thrown even
To produce clean, wholesome cream
them much less liable to lameness
we must have clean stables, clean
Yash all the utensils after using.
Wash all the utensils after using.
Wash all the utensils after using.
Wash first with warm water to remove
the road, they will not require shoes.
Another thing in their favor is that
they can be stabled without haltering;
at all times. This requires a warm
to "rest on his oars," as the saying is,
leaving to a servant no doubt the
loose will not give the trouble of three
leaving to a servant no doubt the
leaving to a servant no doubt the stable and wholesome clean though the touch. I have
leaving to a servant no serving fine flavored cream if his stable is con- cess is cleanliness from the time the Always sell what you advertise and

profit to maintain an article of high

custards are baked are slightly greased

Grafting is an art which the fruit should not be washed in strong soap

# MULES ON THE FARM

BY J. M. BELL, VIRGINIA.

For generations the mule has been mule that had been used to carry In feeding mules it may be well to out used exclusively on the farm in the grain to the markets of Rome until he remember that they will keep fat on south. They seem not to be in favor was 60 years of age, turned out as too about three-fourths the allowance of ure-Four set of triggers. This is one to so great an extent on the farms in old to follow his daily labor and this a horse of the same weight, that they

There is an old saying in the south began their journey. There is an old saying in the south to this effect. Two sets of mules will last a farmer his lifetime. For instance a farmer starting out at 21 large Southern phentation along with resist heat and flies better and do not years of age buys a team of mules other mules varying from 20 to 25 chafe so easily. three years old. They are ready to go years younger.

or road work if properly cared for. their grinders fail to allow them to suited to pleasure purposes. The writer has known them to be thoroughly masticate their food that put to regular work at two and a half their daily usefulness ceases. Those objections are wo

to "rest on his oars," as the saying is, loose will not give the trouble of three they will prove to be about the most lengths of about eight inches, and leaving to a servant no doubt the horses turned loose, as the former will profitable stock on the place, either notched. a well-established fact for so long that

A VERY USEFUL BIRD.

man knoweth not to the contrary.

light, no less than electric, under a



taught it to help in the building of premises.

This seems a pity aged, but faithful beast declined to be will eat up roughage and that their

The figure four, as generally made.

The figure four, as generally made. as the 1.000-pound mule will do as shelved but insisted upon making the grain ration will only be about two-much work, live on less and last regular trip to the market place allonger at hard work, than the 1200-though free and unloaded, falling in when it comes to daily care and the standard work work. line as the other beasts of burden attention, the mule will live where the

to work. Four or five years of age. It may be safely asserted that a might be better, but at three years mule will last as long as its teeth and to the use of mules is that they do not they are capable of doing steady farm it is only when, from advanced age, breed, that they are stubborn, often or road work if properly cared for. their grinders fail to allow them to

years of age and kept at it until they had crossed the quarter century mark.

But to get back to the young farmer, He starts out at 21 years of age with his team of three-year-old mules.

Their immunity from accident and sideration but the many good qualities of these sturdy beasts seem to more this that it is seldom that one ever than offset them.

From a commercial standpoint it with his team of three-year-old mules.

anagement of the farm.

The longevity of the mule has been gether as a visit to any big sale stable You will find them easier to raise. The drawing will explain to You will find them easier to raise.

Pliny, in his writings, mentions the his stall

NOTES OF THE POULTRY YARD.

A half dozen bantam hens and a well-bred rooster will protect the poultry yard from cats, dogs and even rats almost as well as a dog. They are brave and spunky and will permit are brave and spunky and will permit noising dangerous to approach their promises.

In New York City the milk supply cut enough of the wire to six under strict municipal surveillance. An auto in the farm yard is no sign. Hardening a child by exposing it to be a spendshrift—on that the owner is a spendshrift—on the contrary it may indicate that he is a specie of cruelty are brave and spunky and will permit noising dangerous to approach their quart.

China on which is glit decoration for word does not no sign that the owner is a spendshrift—on that the owner is a spendshrift—on the contrary it may indicate that he owner is a spendshrift—on the contrary it may indicate that he owner is a spendshrift—on the contrary it may indicate that he owner is a spendshrift—on the contrary it may indicate that he owner is a spendshrift—on the contrary it may indicate that he owner is a spendshrift—on that the owner is a spendshrift—on that the

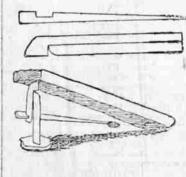
The objection many farmers raise

Those objections are worthy con-

a well-established fact for so long that like the common law, the memory of ways kept in pens free and turned than horse colts. And when you want

came and the fur-bearing animals is at hand. I want to tell the boys of a few short cuts that will help them

caused the pressure of the stone or



The drawing will explain the

SCREEN

For several years

loose, while each horse is haltered in to dispose of them they are always in A CHEAP AND EFFICIENT STOVE

be more firmly fixed in place. used one made of common 26-inch

to the floor, but so it can be raised zen unless he takes enough interest in HELPS FOR THE FARMER'S WIFE.

about how much cubic air space each Avoid sudden changes in the line of quality,

Leather-covered furniture can be A run-down, weedy garden always cleaned with sweet milk applied with is the sign of an over-worked woman a piece of soft flannel. Rub gently until dry.

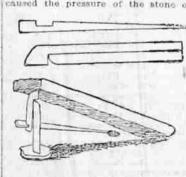


So many little children who are just

### BEATS THE OLD FIGURE-FOUR TRAP.

Now that the season of trapping

First, it is a medification of the Fig-The figure four, as generally made,



If a heavy zinc board is used under every election.

